Special Issue

New Approaches in Green Catalysis

Message from the Guest Editors

Catalysis is one of the foundational pillars of green chemistry, providing pathways to a sustainable development. In this context, very important achievements have been made in the production of novel highly efficient catalysts through the adoption of new synthetic methods. The use of catalysts in solvent-free pathways or in association with greener solvents has allowed spectacular enhancements in the valorization of biomass, leading to biofuels and biochemicals. Additionally, the use of CO2 as a C1 building block has gained great attention. Bio- and photo-catalytic applications also bring important contributions to green catalysis. Given the continuous advancements in this area and, as a consequence, the new challenges to be faced, it is extremely important that experts in the field focus their research and energy on this topic. The main aim of this Special Issue is to highlight novel developed strategies designed to promote green catalysis. Original research papers and reviews providing new insights into green catalysis are welcome.

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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